

WHAT IS CLAIMED IS:

Sub
A1

1. A reflective liquid crystal display device, comprising:
first and second substrates facing and spaced apart from each other;
- a first transparent electrode beneath the first substrate;
a light absorption layer on the second substrate;
a cholesteric liquid crystal (CLC) color filter layer on the light absorption layer,
the cholesteric liquid crystal color filter layer being multi-layered and each layer of the
cholesteric liquid crystal color filter layer including sub-color filters for red, green and
blue colors arranged in an alternating order;
a second transparent electrode on the cholesteric liquid crystal color filter layer;
and
a liquid crystal layer interposed between the first and second transparent
electrodes.

2. The reflective liquid crystal display device according to claim 1, further
including a plurality of thin film transistors, which correspond respectively to each of
the sub-color filters and are respectively connected to the corresponding first
transparent electrode; and

a passivation layer beneath the thin film transistor and the first substrate.

3. The reflective liquid crystal display device according to claim 1, further
including a plurality of thin film transistors, which correspond respectively to each of

the sub-color filters and are respectively connected to the corresponding second transparent electrode.

4. The reflective liquid crystal display device according to claim 1, further including a quarter wave plate on the first substrate and a polarizing plate on the quarter wave plate.

5. The reflective liquid crystal display device according to claim 1, wherein the cholesteric liquid crystal (CLC) color filter layer consists of at least two layers.

6. The reflective liquid crystal display device according to claim 5, wherein each layer of each respective sub-color filter has a different central wavelength of reflections.

7. The reflective liquid crystal display device according to claim 6, wherein the central wavelength of reflection for red color is between about 620 and about 650 nm, for green color between about 530 and about 570 and for blue color between about 440 and about 480.

8. A reflective liquid crystal display device, comprising:
first and second substrates facing and spaced apart from each other;
a first transparent electrode beneath the first substrate;

a light absorption layer on the second substrate;

a cholesteric liquid crystal color filter layer on the light absorption layer, the cholesteric liquid crystal color filter layer including sub-color filters for red, green and blue colors arranged in an alternating order, each of the sub-color filters being divided into a plurality of regions;

a second transparent electrode on the cholesteric liquid crystal color filter layer; and

a liquid crystal layer interposed between the first and second transparent electrodes.

9. The reflective liquid crystal display device according to claim 8, further including a plurality of thin film transistors, which correspond respectively to each of the sub-color filters and are respectively connected to the first transparent electrode; and a passivation layer beneath the thin film transistor and the first substrate.

10. The reflective liquid crystal display device according to claim 8, further including a plurality of thin film transistors, which correspond respectively to each of the sub-color filters and are respectively connected to the second transparent electrode.

11. The reflective liquid crystal display device according to claim 8, further comprising a quarter wave plate on the first substrate and a polarizing plate on the quarter wave plate.

12. The reflective liquid crystal display device according to claim 8, wherein each region of each respective sub-color filter has a different central wavelength of reflection.

13. The reflective liquid crystal display device according to claim 12, wherein the central wavelength of reflection for red color is between about 620 and about 650 nm, for green color between about 530 and about 570 and for blue color between about 440 and about 480.

14. The reflective liquid crystal display device according to claim 8, wherein the cholesteric liquid crystal color filter layer is multilayered.

15. A reflective liquid crystal display device, comprising:
first and second substrates facing and spaced apart from each other;
a first transparent electrode beneath the first substrate;
a light absorption layer on the second substrate;
a cholesteric liquid crystal color filter layer on the light absorption layer, the cholesteric liquid crystal color filter layer being multi-layered and each layer of the cholesteric liquid crystal (CLC) color filter layer including sub-color filters for red, green and blue colors arranged in an alternating order, each of the sub-color filters being divided into a plurality of regions;
a second transparent electrode on the cholesteric liquid crystal color filter layer;
and

a liquid crystal layer interposed between the first and second transparent electrodes.

Sub
A1
Cm
16. The reflective liquid crystal display device according to claim 15, further including a plurality of thin film transistors, which correspond respectively to each of the sub-color filters and are respectively connected to the first transparent electrode; and
a passivation layer beneath the thin film transistor and the first substrate.

17. The reflective liquid crystal display device according to claim 15, further including a plurality of thin film transistors, which correspond respectively to each of the sub-color filters and are respectively connected to the second transparent electrode.

18. The reflective liquid crystal display device according to claim 15, further comprising a quarter wave plate on the first substrate and a polarizing plate on the quarter wave plate.

19. The reflective liquid crystal display device according to claim 15, wherein the cholesteric liquid crystal color filter layer consists of at least two layers.

20. The reflective liquid crystal display device according to claim 15,
wherein each region of each respective sub-color filter has a different central
wavelength of reflection.

21. The reflective liquid crystal display device according to claim 20,
wherein the central wavelength of reflection for red color is between about 620 and
about 650 nm, for green color between about 530 and about 570 and for blue color
between about 440 and about 480.